

Translation

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| Applicant's or agent's file reference 99P8598P | FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) | |
| International application No. PCT/EP99/10474 | International filing date (day/month/year) 29 December 1999 (29.12.99) | Priority date (day/month/year) 14 January 1999 (14.01.99) |
| International Patent Classification (IPC) or national classification and IPC H04R 25/00, 3/00 | | |
| Applicant SIEMENS AUDIOLOGISCHE TECHNIK GMBH | | |

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 1 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

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| Date of submission of the demand 11 August 2000 (11.08.00) | Date of completion of this report 09 April 2001 (09.04.2001) |
| Name and mailing address of the IPEA/EP | Authorized officer |
| Facsimile No. | Telephone No. |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP99/10474

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
pages _____ 1-8 _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☒ the claims:
pages _____ 1-13 _____, as originally filed
pages _____, as amended (together with any statement under Article 19
pages _____, filed with the demand
pages _____ 14-17 _____, filed with the letter of 08 March 2001 (08.03.2001)
- ☒ the drawings:
pages _____ 1/5-5/5 _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
pages _____, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. _____ 18, 19 _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

| | | | |
|-------------------------------|--------|------|-----|
| Novelty (N) | Claims | 1-17 | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | 1-17 | YES |
| | Claims | | NO |
| Industrial applicability (IA) | Claims | 1-17 | YES |
| | Claims | | NO |

2. Citations and explanations

Claim 1

No search report citation discloses or suggests the feature, in which before multiplication in the frequency range the frequency response function ($H(v)$) is folded by a selectable discrete window function which is considerably shorter in length than the frequency response function ($H(v)$).

Consequently, Claim 1 meets the requirements of PCT Article 33(2) and (3).

Claims 2 to 13

These dependent claims disclose other steps of the method according to Claim 1. Consequently, they meet the requirements of PCT Article 33(2) and (3) in combination with Claim 1.

Claim 14

Claim 14 discloses a device for carrying out the method, and particular elements are connected up to each other as non-recursive digital filters. Since the device has to carry out the claimed method, this non-recursive digital filter is above the memory 130 of the multiplication arrangement 120.

The search report citations do not disclose or suggest introducing this type of filter at such a point. Consequently, Claim 14 meets the requirements of PCT Article 33(2) and (3).

Claim 15

Claim 15 discloses a device for carrying out a method, which is portrayed as a sequence of microprogram words, which sequence can be used in a microprogram control unit. Since the statement about method Claim 1 readily transfers to the subject matter of Claim 15, this claim also meets the requirements of PCT Article 33(2) and (3).

Claim 16

Claim 16 discloses a device for carrying out a method, which is portrayed as a sequence of assembler commands, which sequence can be executed on a microcomputer or a specialised signal processor. Since the statement in relation to method Claim 1 readily transfers to the subject matter of Claim 16, this claim also meets the requirements of PCT Article 33(2) and (3).

Claim 17

This dependent claim, Claim 17, discloses other embodiments of the subject matter according to Claim 16. Consequently, Claim 17 meets the requirements of PCT Article 33(2) and (3) in combination with Claim 16.